ICAR S.p.A.
Via Isonzo 10, 20052 Monza (MI)

Surge Protection Capacitor

BIORIPHASO/TF AT 0.03/36.3

0.03 µF – 36.3 kV - 50/60 Hz

TECHNICAL DATA AND GENERAL CHARACTERISTICS

Rated Capacitance	µF	0.03
Capacitance Tolerance	%	-5...+10
Rated Voltage	kV	36.3
Service Voltage	kV	36.3/√3
Rated Frequency	Hz	50/60
Rated Current at 50/60 Hz	A	0.34/0.41
Insulation Level/B.I.L.	kV	70/170
Temperature Category	°C	-25/B
Service		INDOOR/OUTDOOR
Altitude	m	<1000
Tangent of loss angle (tan δ)		$< 0.2 \cdot 10^{-3}$
Discharge Resistor		NO
According to standards		IEC 60358 / CEI 33-2
Dielectric		Polypropylene Film
Electrodes/		Aluminium Foil
Impregnant (no PCB)		BIOIL®
Case Material		Stainless Steel
Case colour		Grey Ral 7031
Bushing	n°	1
Material		Ceramic
Colour		Brown
Creepage Distance	mm	570
Terminal		M14 Stud
Max Torque	Nm	25
Approximate weight	kg	15

Technical Description

The Capacitors of our BIORIPHASO/TF AT series are designed and built in accordance with the most advanced technology, which give them long life and high reliability.

The dielectric consists of layers of the best quality of polypropylene film.
The electrodes consist of pure aluminium foil.

The impregnant, called BIOIL®, is a biodegradable and no-toxic dielectric fluid, it does not contain chlorinated substances or presents any ecological problems.
It has high dielectric strength, low losses, and is very stable at high temperature.

The housing of Bioriphaso/TF AT capacitors is made of stainless steel sheeting, welded together without the further addition of metal. This housing ensures that the dielectric will be well preserved and not deteriorate through pollution over a period of time.

The housing is protected by a synthetic paint, suitable for outdoor use, with high mechanical resistance and good resistance to pollution, industrial fumes and salt fog. The blue-grey colour of the paint makes for efficient heat transmission.

The bushings are made of brown porcelain. Before mounting all bushings are tested for mechanical strength. They are suitable for outdoor installation in an environment polluted with industrial fumes.

ROUTINE TEST

External inspection and dimensional check

Voltage Test between Terminals at 70 kV - 50 Hz for 60 s , room temperature.

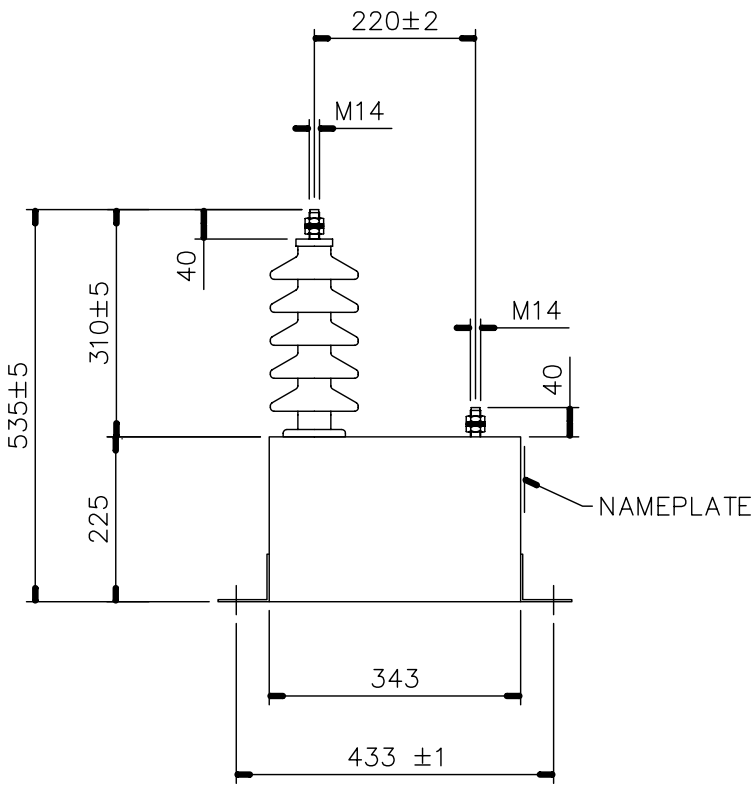
Capacitance and Tangent of Loss Angle Measurement at $36.3/\sqrt{3}$ kV – 50 Hz , room temperature.

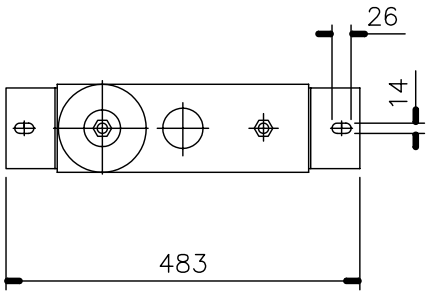
Partial discharge test

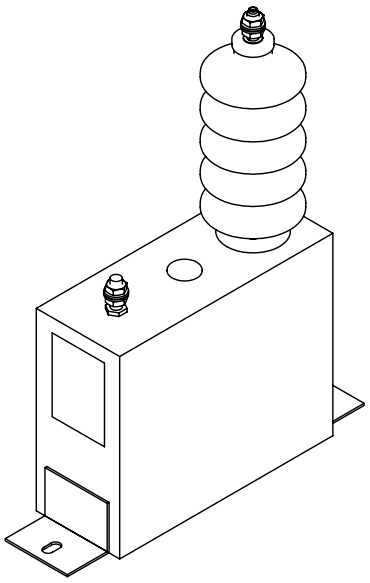
Sealing Test at 80 °C for 20 h.

DRAWING

4K5706 Rev.C BIORIPHASO/TF AT 0.03/36.3







Rev.	Descrizione Revisioni / Revision Description	Data/Date	Firma/Sign.	Approv.
C	CAMBIATO ALTEZZA CUSTODIA DA 200 A 225	7/11/11	F.G.	
B	REV. GENERALE	7/7/11	F.G.	
A	PRIMA EMISSIONE	14/9/95	F.G.	

ICAR INDUSTRIA CONDENSATORI
APPLICAZIONI ELETTROELETTRONICHE

Disegno/Drawing: 4K5706– Rev.: C

Titolo / Title

BIORIPHASO/TF AT 0,03/36,3

0,03 µF – 36,3 kV – 50/60 Hz

Foglio/Sheet | Segue/Follow | Centro di Costo

1	2	3
X	5	6
7	8	9

Scala/Scale 1:10

Sostituito dal N. / Replaced by N.

Sostituisce il N. / Replaces N.

Per quote senza indicazione di tolleranza vedasi norme UNI ISO 2768 classe di tolleranza c / For dimensions without tolerance indication refer to UNI ISO 2768 class of tolerance c